

REMARKS

Claims 42, 43, 49, 51 and 52 are cancelled; claims 44-48, 50 and 53-69 are amended; and claims 33-37, 44-48, 50, 53-69 and 73 are pending in the application.

Claims 33-37 and 73 are allowed.


Claims 44-48, 50 and 53-69 are objected to for depending from rejected base claims, but are indicated to be otherwise allowable. Applicant has amended claims 44-48, 50 and 53-69 to remove the dependencies on the rejected base claims, and accordingly believes claims 44-48, 50 and 53-69 to now be in condition for allowance.

Applicant respectfully requests formal allowance of claims 33-37, 44-48, 50, 53-69 and 73 in the Examiner's next action.

Respectfully submitted,

Dated: January 9, 2003

By: _____


David G. Latwesen, Ph.D.
Reg. No. 38,533

b



Appl. N. 09/822,037

Application Serial No.09/822,037
Filing Date March 29, 2001
Inventor G. Wang
Assignee Honeywell International Inc.
Group Art Unit 1742
Examiner H.D. Wilkins, III
Attorney's Docket No. HO001831
Title: Mixed Metal Materials

RECEIVED
JAN 15 2003
TC 1700

VERSION WITH MARKINGS TO SHOW CHANGES MADE ACCOMPANYING
RESPONSE TO OCTOBER 9, 2002 OFFICE ACTION

In the Claims

The claims have been amended as follows. Underlines indicate insertions and ~~strikeouts~~ indicate deletions.

Claims 42, 43, 49, 51 and 52 are cancelled.

44. (Amended) ~~The material of claim 42 comprising~~ A material which consists essentially of at least one first element selected from the group consisting of titanium, tantalum, zirconium, hafnium, and niobium; and at least one second element selected from the group consisting of vanadium and nickel; and

wherein the material comprises the tantalum to a concentration of greater than or equal to about 5 weight percent and less than or equal to about 95 weight percent.

45. (Amended) The material of claim 42 44 comprising the tantalum to a concentration of greater than or equal to about 5 weight percent and less than or equal to about 25 weight percent.

6

46. (Amended) The material of claim 42 44 comprising the tantalum to a concentration of greater than or equal to about 25 weight percent and less than or equal to about 50 weight percent.

47. (Amended) The material of claim 42 44 comprising the tantalum to a concentration of greater than or equal to about 50 weight percent and less than or equal to about 75 weight percent.

48. (Amended) The material of claim 42 44 comprising the tantalum to a concentration of greater than or equal to about 75 weight percent and less than or equal to about 95 weight percent.

50. (Amended) ~~The material of claim 42 comprising~~ A material which consists essentially of at least one first element selected from the group consisting of titanium, tantalum, zirconium, hafnium, and niobium; and at least one second element selected from the group consisting of vanadium and nickel; and

wherein the material comprises the titanium to a concentration of greater than or equal to about 5 weight percent and less than or equal to about 25 weight percent.

53. (Amended) ~~The material of claim 42 comprising~~ A material which consists essentially of at least one first element selected from the group consisting of titanium,

tantalum, zirconium, hafnium, and niobium; and at least one second element selected from the group consisting of vanadium and nickel; and

wherein the material comprises the titanium to a concentration of greater than or equal to about 75 weight percent and less than or equal to about 95 weight percent.

54. (Amended) ~~The material of claim 42 comprising~~ A material which consists essentially of at least one first element selected from the group consisting of titanium, tantalum, zirconium, hafnium, and niobium; and at least one second element selected from the group consisting of vanadium and nickel; and

wherein the material comprises the hafnium to a concentration of greater than or equal to about 5 weight percent and less than or equal to about 95 weight percent.

55. (Amended) The material of claim 42 54 comprising the hafnium to a concentration of greater than or equal to about 5 weight percent and less than or equal to about 25 weight percent.

56. (Amended) The material of claim 42 54 comprising the hafnium to a concentration of greater than or equal to about 25 weight percent and less than or equal to about 50 weight percent.

57. (Amended) The material of claim 42 54 comprising the hafnium to a concentration of greater than or equal to about 50 weight percent and less than or equal to about 75 weight percent.

58. (Amended) The material of claim 42 54 comprising the hafnium to a concentration of greater than or equal to about 75 weight percent and less than or equal to about 95 weight percent.

59. (Amended) ~~The material of claim 42 comprising~~ A material which consists essentially of at least one first element selected from the group consisting of titanium, tantalum, zirconium, hafnium, and niobium; and at least one second element selected from the group consisting of vanadium and nickel; and

wherein the material comprises the niobium to a concentration of greater than or equal to about 5 weight percent and less than or equal to about 95 weight percent.

60. (Amended) The material of claim 42 59 comprising the niobium to a concentration of greater than or equal to about 5 weight percent and less than or equal to about 25 weight percent.

61. (Amended) The material of claim 42 59 comprising the niobium to a concentration of greater than or equal to about 25 weight percent and less than or equal to about 50 weight percent.

62. (Amended) The material of claim 42 59 comprising the niobium to a concentration of greater than or equal to about 50 weight percent and less than or equal to about 75 weight percent.

63. (Amended) The material of claim 42 59 comprising the niobium to a concentration of greater than or equal to about 75 weight percent and less than or equal to about 95 weight percent.

64. (Amended) ~~The material of claim 42 comprising~~ A material which consists essentially of at least one first element selected from the group consisting of titanium, tantalum, zirconium, hafnium, and niobium; and at least one second element selected from the group consisting of vanadium and nickel; and

wherein the material comprises the zirconium to a concentration of greater than or equal to about 5 weight percent and less than or equal to about 95 weight percent.

65. (Amended) The material of claim 42 64 comprising the zirconium to a concentration of greater than or equal to about 5 weight percent and less than or equal to about 25 weight percent.

66. (Amended) The material of claim 42 64 comprising the zirconium to a concentration of greater than or equal to about 25 weight percent and less than or equal to about 50 weight percent.

67. (Amended) The material of claim 42 64 comprising the zirconium to a concentration of greater than or equal to about 50 weight percent and less than or equal to about 75 weight percent.

68. (Amended) The material of claim 42 64 comprising the zirconium to a concentration of greater than or equal to about 75 weight percent and less than or equal to about 95 weight percent.

69. (Amended) ~~The material of claim 42 being~~ A material which consists essentially of at least one first element selected from the group consisting of titanium, tantalum, zirconium, hafnium, and niobium; and at least one second element selected from the group consisting of vanadium and nickel; and
wherein the material is in the shape of a PVD target.

--END OF DOCUMENT--